

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-6: (canceled).

Claim 7 (currently amended): A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

a permanent magnet embedded in the rotor yoke,

wherein a magnetic field produced by the permanent magnet does not pass through the rotating shaft[[:]], and

~~comprising wherein~~ at least one void is located in the rotor yoke ~~adjacent to~~ between the permanent magnet and the rotating shaft.

Claim 8 (currently amended): A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and
a permanent magnet embedded in the rotor yoke,
wherein a magnetic field produced by the permanent magnet bypasses the rotating
shaft[[]], and

~~comprising wherein~~ at least one void is located in the rotor yoke ~~adjacent to~~ between the
permanent magnet and the rotating shaft.

Claim 9 (currently amended): A synchronous induction motor comprising:
a stator equipped with a stator winding;
a rotor which is secured to a rotating shaft and which rotates in the stator;
a secondary conductor provided around the rotor yoke constituting the rotor; and
a permanent magnet embedded in the rotor yoke,
wherein a magnetic field produced by the permanent magnet passes through only the rotor
yoke, excluding the rotating shaft[[]], and

~~comprising wherein~~ at least one void is located in the rotor yoke ~~adjacent to~~ between the
permanent magnet and the rotating shaft.

Claim 10 (currently amended): A synchronous induction motor comprising:
a stator equipped with a stator winding;
a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and
a permanent magnet embedded in the rotor yoke[[,]] which does not have a length
radially disposed; and

~~wherein a magnetic field produced by the permanent magnet does not pass through the
rotating shaft; and~~

comprising secondary permanent magnets provided symmetrically about a line that
connects two magnetic poles, wherein the secondary permanent magnets have lengths which are
radially disposed, and wherein the secondary magnets are substantially adjacent to the rotating
shaft,

wherein a magnetic field produced by the permanent magnet does not pass through the
rotating shaft.

Claim 11 (currently amended): A synchronous induction motor comprising:

a stator equipped with a stator winding;
a rotor which is secured to a rotating shaft and which rotates in the stator;
a secondary conductor provided around the rotor yoke constituting the rotor; and
a permanent magnet embedded in the rotor yoke[[,]] which does not have a length
radially disposed; and

~~wherein a magnetic field produced by the permanent magnet bypasses the rotating shaft;~~
and

~~comprising~~ secondary permanent magnets provided symmetrically about a line that connects two magnetic poles, wherein the secondary permanent magnets have lengths which are radially disposed, and wherein the secondary magnets are substantially adjacent to the rotating shaft,

wherein a magnetic field produced by the permanent magnet bypasses the rotating shaft.

Claim 12 (currently amended): A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

a permanent magnet embedded in the rotor yoke[[,]] which does not have a length

radially disposed; and

~~wherein a magnetic field produced by the permanent magnet passes through only the rotor yoke, excluding the rotating shaft; and~~

~~comprising~~ secondary permanent magnets provided symmetrically about a line that connects two magnetic poles, wherein the secondary permanent magnets have lengths which are radially disposed, and wherein the secondary magnets are substantially adjacent to the rotating shaft,

wherein a magnetic field produced by the permanent magnet passes through only the rotor yoke, excluding the rotating shaft.

Claim 13 (new): The synchronous induction motor as recited in claim 8, wherein said at least one void has a shape of an arc of a circle.

Claim 14 (new): The synchronous induction motor as recited in claim 9, wherein said at least one void has a shape of an arc of a circle.

Claim 15 (new): The synchronous induction motor as recited in claim 10, wherein said at least one void has a shape of an arc of a circle.